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This paper is to appear in the *IEEE Transactions on CAD* .
- Virtual Wires: Overcoming Pin Limitations in FPGA-based Logic Emulators,
by Jonathan Babb, Russ Tessier, and Anant Agarwal
This paper appears in the *Proceedings of the IEEE Workshop on FPGAs for Custom Computing Machines '93 (FCCM '93)* , April 1993.
- The Virtual Wires Emulation System: A Gate-Efficient ASIC Prototyping Environment,
by Russell Tessier, Jonathan Babb, Matthew Dahl, Silvina Hanono, and Anant Agarwal
This paper appears in the *Proceedings of the 1994 ACM Workshop on FPGA's (FPGA '94)*, Feb. 1994.
- Emulation of a Sparc Microprocessor with the MIT Virtual Wires Emulation System,
by Matthew Dahl, Jonathan Babb, Russ Tessier, Silvina Hanono, David Hoki, and Anant Agarwal
This paper appears in the *Proceedings of the IEEE Workshop on FPGAs for Custom Computing Machines '94 (FCCM '94)* , April 1994.
- Virtual Wires: Overcoming Pin Limitations in FPGA-based Logic Emulators,
by Jonathan Babb, and Russell Tessier
This paper appears in the *Proceedings of the 1993 MIT Student Workshop on Scalable Computing* , Aug. 4, 1993.
- The Virtual Wires Emulation System: A Gate-Efficient ASIC Prototyping Environment,
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This paper appears in the *Proceedings of the 1994 MIT Student Workshop on Scalable Computing* , July 21-22, 1994.
- Virtual Wires: Overcoming Pin Limitations in FPGA-based Logic Emulation,
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- An Implementation of the Virtual Wires Interconnect Scheme,
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Masters Thesis, Massachusetts Institute of Technology, Department of Electrical Engineering and Computer Science, February 1994. Also available as MIT/LCS Technical Report ____.
- The Design of an Efficient Hardware Subroutine Protocol for FPGAs,
by Trevor Joseph Bauer
Masters Thesis, Massachusetts Institute of Technology, Department of Electrical Engineering and Computer Science, May 1994. Also available as MIT/LCS Technical Report ____.
- InnerView Hardware Debugger: A Logic Analysis Tool for the Virtual Wires Emulation System,
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1 [Protocol stacked-based telecon emulator](#)

Takahiro Murooka, Toshiaki Miyazaki

January 2000 **Proceedings of the conference on Design, automation and test in Europe**


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2 [The design of RPM: an FPGA-based multiprocessor emulator](#)

Koray Öner, Luiz A. Barroso, Sasan Iman, Jaeheon Jeong, Krishnan Ramamurthy, Michel Dubois

February 1995 **Proceedings of the 1995 ACM third international symposium on Field-programmable gate arrays**

Full text available:  [pdf\(54.01 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Recent advances in Field-Programmable Gate Arrays (FPGA) and programmable interconnects have made it possible to build efficient hardware emulation engines. In addition, improvements in Computer-Aided Design (CAD) tools, mainly in synthesis tools, greatly simplify the design of large circuits. The RPM (Rapid Prototype Engine for Multiprocessors) Project leverages these two technological advances. Its goal is to develop a common hardware platform for th ...

Keywords: field-programmable gate arrays, logic emulation, message-passing multicomputers, rapid prototyping, shared-memory multiprocessors

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#)

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 [Architecture of the IBM system/370](#)


Richard P. Case, Andris Padegs

January 1978 **Communications of the ACM**, Volume 21 Issue 1

This paper discusses the design considerations for the architectural extensions that distinguish System/370 from System/360. It comments on some experiences with the original objectives for System/360 and on the efforts to achieve them, and it describes the reasons and objectives for extending the architecture. It covers virtual storage, program control, data-manipulation instructions, timing facilities, multiprocessing, debugging and monitoring, error handling, and input/output operations. ...

Keywords: architecture, computer systems, error handling, instruction sets, virtual storage


- 5 [Recent advances in the modeling, scheduling and control of flexible automation](#)
Wayne J. Davis, Duane Setterdahl, Joseph Macro, Victor Izokaitis, Bradley Bauman
December 1993 **Proceedings of the 25th conference on Winter simulation**

Full text available:  pdf(1.53 MB)Additional Information: [full citation](#), [references](#), [citations](#)

- 6 [Launching the new era](#)

Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick

March 1993 **Communications of the ACM**, Volume 36 Issue 3

Full text available:  pdf(3.45 MB)Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

- 7 [Concepts of the MATHILDA system](#)

Peter Kornerup

December 1974 **ACM SIGARCH Computer Architecture News , Proceedings of the 2nd annual symposium on Computer architecture**, Volume 3 Issue 4


Full text available:  pdf(591.41 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

A dynamically microprogrammable processor called MATHILDA is described. MATHILDA has been designed to be used as a tool in emulator and processor design research. It has a very general microinstruction sequencing scheme, sophisticated masking and shifting capability, high speed local storage, a 64-bit wide main data path, a horizontally encoded microinstruction, and other facilities which make it reasonably well suited for this purpose. This paper presents a brief overview of the MATHILDA system ...

- 8 [The Howitzer improvement program: lessons learned](#)

D. Krantz


January 1989 **Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment**

Full text available:  pdf(1.59 MB)Additional Information: [full citation](#), [references](#), [index terms](#)

- 9 [The family of concurrent logic programming languages](#)

Ehud Shapiro

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3


Full text available:  pdf(9.62 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

10 The X window system

Robert W. Scheifler, Jim Gettys

April 1986 **ACM Transactions on Graphics (TOG)**, Volume 5 Issue 2

Full text available:  pdf(2.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An overview of the X Window System is presented, focusing on the system substrate and the low-level facilities provided to build applications and to manage the desktop. The system provides high-performance, high-level, device-independent graphics. A hierarchy of resizable, overlapping windows allows a wide variety of application and user interfaces to be built easily. Network-transparent access to the display provides an important degree of functional separation, without significantly affecting ...

11 Towards a family of languages for the design and implementation of machine architectures

Subrata Dasgupta, Marius Olafsson

April 1982 **Proceedings of the 9th annual symposium on Computer Architecture**

Full text available:  pdf(759.02 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, increases in complexity of hardware/firmware systems, and the concern for systems reliability have resulted in growing interest in methodologies and tools for the design, description and verification of computer systems. A vital component of any such design methodology is the language used for representing the design. In the case of particularly complex systems the design process may involve a succession of stages each of which represents the system at a particular level of ...

12 The Aladdex operating systems for the Aladdin multiprocessor

Don Krantz, Ron Belt, Steve Gunderson, Belle Shenoy, Mark Vojta

October 1993 **Proceedings of the conference on TRI-Ada '93**

Full text available:  pdf(1.26 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

13 Microprocessor applications in the nuclear industry

C. Dwayne Ethridge

April 1980 **ACM SIGCAS Computers and Society**, Volume 10 Issue 3-4

Full text available:  pdf(966.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Microprocessors in the nuclear industry, particularly at the Los Alamos Scientific Laboratory, have been and are being utilized in a wide variety of applications ranging from data acquisition and control for basic physics research to monitoring special nuclear material in long-term storage. Microprocessor systems have been developed to support weapons diagnostics measurements during underground weapons testing at the Nevada Test Site. Multiple single-component microcomputers are now controlling ...

14 Architectural considerations for a microprogrammable emulating engine using bit-slices

C. Halatsis, A. van Dam, J. Joosten, M. Letheren

May 1980 **Proceedings of the 7th annual symposium on Computer Architecture**

Full text available:  pdf(951.32 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes architectural considerations which led to the design of a fast programmable processor made from ECL bit-slices. The processor will be used as an on-line data filtering engine for high energy physics experiments. Unlike prior designs of such engines, the processor supports both user (horizontal) microcode and emulation of the PDP-11 fixed point instruction set (without memory management and multiple interrupt levels). In addition to an overview of the techniques used to ...

15 An environment for operational software engineering in Ada

M. Baldassari, G. Bruno

January 1989 **Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment**

Full text available:  pdf(1.95 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents PROTOB, an object-oriented methodology and CASE system based on an extended dataflow model defined using PROT nets. It consists of several tools supporting specification, modelling and prototyping activities within the framework of the operational software life cycle paradigm. As its major application area it addresses distributed systems, such as real-time embedded systems, communication protocols and manufacturing control systems. The system automatically generates the ...

16 [Optimal performance of distributed simulation programs](#)

Steven M. Swope, Richard M. Fujimoto

December 1987 **Proceedings of the 19th conference on Winter simulation**

Full text available:  pdf(769.70 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a technique to analyze the potential speedup of distributed simulation programs. A distributed simulation strategy is proposed which minimizes execution time through the use of an oracle to control the simulation. Because the strategy relies on an oracle, it cannot be used for practical simulations. However the strategy facilitates performance evaluations of distributed simulation strategies by providing a useful point of comparison and can be used to d ...

17 [Hardware and software support for efficient exception handling](#)

Chandramohan A. Thekkath, Henry M. Levy

November 1994 **Proceedings of the sixth international conference on Architectural support for programming languages and operating systems**, Volume 29 , 28 Issue 11 , 5

Full text available:  pdf(1.44 MB)


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Program-synchronous exceptions, for example, breakpoints, watchpoints, illegal opcodes, and memory access violations, provide information about exceptional conditions, interrupting the program and vectoring to an operating system handler. Over the last decade, however, programs and run-time systems have increasingly employed these mechanisms as a performance optimization to detect normal and expected conditions. Unfortunately, current archi ...

18 [Binary translation](#)

Richard L. Sites, Anton Chernoff, Matthew B. Kirk, Maurice P. Marks, Scott G. Robinson

February 1993 **Communications of the ACM**, Volume 36 Issue 2

Full text available:  pdf(4.84 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CISC computers, RISC computers, binary translation, computer architecture, processor architecture translation

19 [An application of simulation to tracking](#)

David A. Bennett, Christopher A. Landauer

December 1979 **Proceedings of the 11th conference on Winter simulation - Volume 1**

Full text available:  pdf(720.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The AIMER project (Automatic Integration of Multiple Element Radars) is an emulated model of a loosely coupled distributed radar tracking processor. The computational elements of the model are minicomputers similar to the PDP-11. Design goals of the model are to provide a reliable processing system whose computational bandwidth can be dynamically altered in response to changing ground scenario and availability of hardware. A large number of minicomputers connected with multiple packet netwo ...

Keywords: Active radar tracking, Distributed processing, Microprogramming, Network operating system, Performance monitoring, Simulation/emulation

20 Toward a history of (personal) workstations

Gordon Bell

January 1986 **Proceedings of the ACM Conference on The history of personal workstations**

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I originally accepted this keynote honor for five reasons: to respond to Alan Perlis' request (he told me I could present anything from a new taxonomy to personal reminiscences); second, to identify the important artifacts that should be preserved in The Computer Museum; third, to posit a framework of the history of workstations that can be written in the next century (we're all too close to create it); fourth, to summarize my own involvement on interactive computing including timesharing a ...

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IEEE STD IEEE Standard


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O'Leary, J.; Brown, G.;
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